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PATENTS, TRADEMARKS, COPYRIGHTS & UNFAIR COMPETITION

February 25, 2008

Commissioner For Patents  
Office of Initial Patent Examination  
Customer Service Center  
P.O. Box 1450  
Alexandria, VA 22313-1450

Re: Our File: REGIM 3.3-094  
Appln. No. 10/576,440  
Filing Date: March 23, 2007  
Group Art Unit: 1617

Dear Sir:

We are enclosing herewith copies of the filing receipt, executed Declaration and Application Data Sheet for the above-identified patent application.

Please note that the section entitled "*Assignment for Published Patent Application*" has inadvertently been omitted from the filing receipt. Therefore, please insert this section to read --**Laboratoire Francais du Fractionnement et des Biotechnologies, Les Ulis, France**--.

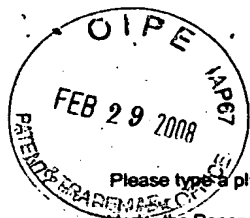
Kindly issue a corrected filing receipt for the above-identified application as soon as possible.

Sincerely yours,

LERNER, DAVID, LITTENBERG,  
KRUMHOLZ & MENTLIK, LLP

ARNOLD H. KRUMHOLZ  
Reg. No. 25,428

AHK/lb  
Enclosures



Please type a plus sign (+) inside this box → ☐

PTO/SB/01 (03-01)  
Approved for use through 10/31/2002. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**DECLARATION FOR UTILITY OR  
DESIGN  
PATENT APPLICATION  
(37 CFR 1.63)**

☐ Declaration  
Submitted  
with Initial  
Filing

OR

☐ Declaration  
Submitted after Initial  
Filing (surcharge  
(37 CFR 1.16 (e))  
required)

Attorney Docket Number

First Named Inventor

**Dominique BOUREL**

**COMPLETE IF KNOWN**

Application Number

Filing Date

Group Art Unit

Examiner Name

**As a below named inventor, I hereby declare that:**

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am an original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**USE OF METALLIC CATIONS TO IMPROVE FUNCTIONAL ACTIVITY OF ANTIBODIES**

(Title of the Invention)

the specification of which

☐ is attached hereto  
OR

☒ was filed on (MM/DD/YYYY)

**10/20/2004**

as United States Application Number or PCT International

Application No.

**PCT/FR2004/002687**

and was amended on  
(MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365 (a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or of any PCT international application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
<b>0312228</b>	<b>FRANCE</b>	<b>10/20/2003</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

Please type a plus sign (+) inside this box +

PTO/SB/01 (03-01)  
Approved for use through 10/31/2002. OMB 0651-0032  
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

## DECLARATION — Utility or Design Patent Application

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Customer Number 000530

Direct all correspondence to:	<input checked="" type="checkbox"/>	Customer Number or Bar Code Label	000530	OR <input type="checkbox"/>	Correspondence address below
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Name			
Address			
City	State	ZIP	
Country	Telephone	Fax	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**NAME OF SOLE OR FIRST INVENTOR:** ☐ A petition has been filed for this unsigned inventor

Given Name (first and middle [if any])	Dominique	Family Name or Surname	BOUREL
Inventor's Signature 		Date 24/04/06	
Residence: City:	State	Country:	Citizenship:
LA MADELEINE		FRANCE	French

Mailing Address:	35, avenue Germaine, 59110 LA MADELEINE – FRANCE		
City:	State	ZIP:	Country :
LA MADELEINE		59110	FRANCE

**NAME OF SECOND INVENTOR:** ☐ A petition has been filed for this unsigned inventor


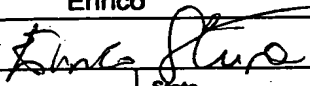
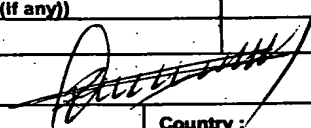
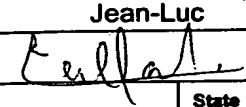
Given Name (first and middle [if any])	Arnaud	Family Name or Surname	GLACET
Inventor's Signature 		Date 02/06/2006	
Residence: City:	State	Country:	Citizenship:
GONDECOURT		FRANCE	French

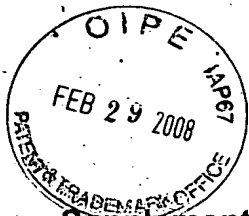
Mailing Address:	46 rue Ringot, 59147 GONDECOURT - FRANCE		
City:	State	ZIP:	Country:
GONDECOURT		59147	FRANCE

☒ Additional inventors are being named on the \_\_\_\_\_ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

LD-537A

<b>DECLARATION</b>	<b>ADDITIONAL INVENTOR(S)</b> Supplemental Sheet
Page <b>3</b> of <b>3</b>	

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Sylvie		JORIEUX	
Inventor's Signature 		Date <b>29.05.06</b>	
Residence: City: VILLENEUVE D'ASCQ	State	Country: FRANCE	Citizenship: French
Mailing Address:	17, rue Molière, 59650 VILLENEUVE D'ASCQ - FRANCE		
City: VILLENEUVE D'ASCQ	State	Zip: 59650	Country: FRANCE
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Enrico		STURA	
Inventor's Signature 		Date <b>30/5/06</b>	
Residence: City RAMBOUILLET	State	Country : FRANCE	Citizenship Italian
Mailing Address:	15, <del>des ajoucs</del> Square Debussy, 78120 RAMBOUILLET - FRANCE		
City: RAMBOUILLET	State	Zip : 78120	Country FRANCE
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Frédéric		DUCANCEL	
Inventor's Signature 		Date <b>30.05.2006</b>	
Residence: City LONGJUMEAU	State	Country : FRANCE	Citizenship : French
Mailing Address:	30, rue d'Alsace, 91160 LONGJUMEAU - FRANCE		
City: LONGJUMEAU	State	Zip : 91160	Country: FRANCE
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Jean-Luc		TEILLAUD	
Inventor's Signature 		Date <b>May 30<sup>th</sup>, 2006</b>	
Residence: City PARIS	State	Country : FRANCE	Citizenship : French
Mailing Address:	41, rue des Archives, 75004 PARIS - FRANCE		
City : PARIS	State	Zip: 75004	Country: FRANCE



## **Supplemental Application Data Sheet**

### **Application Information**

Application number::	<u>10/576,440</u>
Filing Date::	<u>04/20/06</u>
Application Type::	Regular
Subject Matter::	Utility
Suggested Group Art Unit::	N/A
CD-ROM or CD-R?::	None
Sequence submission?::	<del>None</del> <u>Paper</u>
Computer Readable Form (CRF)?::	<del>No</del> <u>Yes</u>
Number of copies of CRF::	<u>1</u>
Title::	USE OF METALLIC CATIONS TO IMPROVE FUNCTIONAL ACTIVITY OF ANTIBODIES
Attorney Docket Number::	REGIM 3.3-094
Request for Early Publication?::	No
Request for Non-Publication?::	No
Suggested Drawing Figure::	<u>1</u>
Total Drawing Sheets::	<u>9</u>
Small Entity?::	No
Petition included?::	No
Secrecy Order in Parent Appl.?::	No

### **Applicant Information**

Applicant Authority Type::	Inventor
Primary Citizenship Country::	France
Status::	Full Capacity
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Country of Residence::	France

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City of mailing address:: La Madeleine  
Country of mailing address:: France  
Postal or Zip Code of mailing address:: F-59110

Applicant Authority Type:: Inventor  
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Status:: Full Capacity  
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Family Name:: Glacet  
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Country of Residence:: France  
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City of mailing address:: Gondécourt  
Country of mailing address:: France  
Postal or Zip Code of mailing address:: F-59147

Applicant Authority Type:: Inventor  
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Family Name:: Jorieux  
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Country of Residence:: France  
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City of mailing address:: Villeneuve-d'Ascq  
Country of mailing address:: France  
Postal or Zip Code of mailing address:: F-59650

Applicant Authority Type:: Inventor  
Primary Citizenship Country:: Italy  
Status:: Full Capacity

Given Name:: Enrico  
Family Name:: Stura  
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Country of Residence:: France  
Street of mailing address:: 15, Square des Ajoncs  
City of mailing address:: Rambouillet  
Country of mailing address:: France  
Postal or Zip Code of mailing address:: F-78120

Applicant Authority Type:: Inventor  
Primary Citizenship Country:: France  
Status:: Full Capacity  
Given Name:: Frédéric  
Family Name:: Ducancel  
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Country of Residence:: France  
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City of mailing address:: Longjumeau  
Country of mailing address:: France  
Postal or Zip Code of mailing address:: F-91160

Applicant Authority Type:: Inventor  
Primary Citizenship Country:: France  
Status:: Full Capacity  
Given Name:: Jean-Luc  
Family Name:: Teillaud  
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Country of Residence:: France  
Street of mailing address:: 41, rue des Archives  
City of mailing address:: Paris  
Country of mailing address:: France  
Postal or Zip Code of mailing address:: F-75004

**Correspondence Information**

Correspondence Customer Number:: 000530

**Representative Information**

Representative Customer Number:: 000530

**Domestic Priority Information**

Application::	Continuity Type::	Parent Application::	Parent Filing Date::
This Application	National Stage of	PCT/FR2004/00268 7	10/20/04

**Foreign Priority Information**

Country::	Application number::	Filing Date::	Priority Claimed::
France	0312228	10/20/03	Yes

**Assignee Information**

Assignee name:: Laboratoire Francais du Fractionnement et  
des Biotechnologies

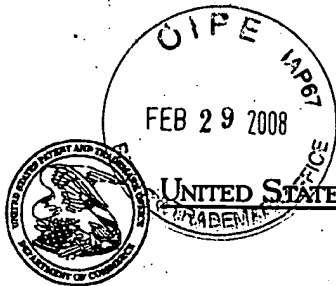
Street of mailing address:: Zone d'Activité de Courtaboeuf, 3, avenue  
des Tropiques

City of mailing address:: Les Ulis

Country of mailing address:: France

Postal or Zip Code of mailing address:: F-91940





UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
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www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
10/576,440	03/23/2007	1617	3230	REGIM 3.3-094	40	9

CONFIRMATION NO. 2420

FILING RECEIPT



530  
LERNER, DAVID, LITTENBERG,  
KRUMHOLZ & MENTLIK  
600 SOUTH AVENUE WEST  
WESTFIELD, NJ 07090

Date Mailed: 02/13/2008

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Applicant(s)

Dominique Bourel, La Madeleine, FRANCE;  
Arnaud Glacet, Gondécourt, FRANCE;  
Sylvie Jorieux, Villeneuve D'Ascq, FRANCE;  
Enrico Stura, Rambouillet, FRANCE;  
Frederic Ducancel, Longjumeau, FRANCE;  
Jean-Luc Teillaud, Paris, FRANCE;

Power of Attorney: The patent practitioners associated with Customer Number 000530

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/FR04/02687 10/20/2004

Foreign Applications

FRANCE 0312228 10/20/2003

If Required, Foreign Filing License Granted: 02/11/2008

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 10/576,440**

Projected Publication Date: 05/22/2008

Non-Publication Request: No

Early Publication Request: No

LDLK&M  
FEB 15 2008  
RECEIVED

**Title**

Use of Metallic Cations to Improve Functional Activity of Antibodies

**Preliminary Class**

424

**PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES**

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

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**Title 35, United States Code, Section 184**

**Title 37, Code of Federal Regulations, 5.11 & 5.15**

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